BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

Est.Cost **1525000.00**

WC

Estimate for Arranging Power supply to Proposed MS building near allalsandra tank bund in Yelahanka Newtown

Sl.No	PARTICULARS	UNIT	QTY	MATERIAL	
				RATE	AMOUNT
	PART (A) Extension of 11kv line				
1	Supply and errection of 9 meter RCC pole including earth work et ccomplete as per the standard technical specification b)9 mtr 145 Kg WL Ele SR 2010-11(P78/29)	Each	35	6583.00 6580 6583.00	230300 230405=00
2	Supplying and Fixing of.....cross arm including all hardwares complete as per the standard technical specification c)horizontal 50x450x6 mm -980mm Ele SR 2010-11(P78/32)	Each	41	270	11070.00
3	Supplying and Fixing of.....including all hardwares complete as per the standard technical specification b)11 KV pin insulator Ele SR 2010-11(P79/37)	Each	108	194	20952.00
	c)Disc insulator	Each	12	1292	15504.00
4	Supply and fixing of Rabbit conductor(6/3.15 mm Al+6/3.15mm steel) Ele SR 2010-11(P79/40)	Mtr	3200	31.47	100704.00
5	Supply and errection of 11 mtr Spun pole including earth work etc ,complete as per the standard technical specification Ele SR 2010-11 (P78/31)	Each	1	20300	20300.00
6	Supplying and Fixing of.....including all hardwares complete as per the standard technical specification b)HTST support 50x8mm Ele SR 2010-11(P79/36	Each	9	77.00 64 77.00	693.00 576
	j)GOS set 200A S/B	Each	1	8106	8106.00
	l)Horn Gap Fuse unit(H.G)	Each	1	1145	1145.00
	n)lighting Arrestor 9KV 5kA Polymeric type	Each	1	1515	1515.00
	g)Guy set	Each	10	1069	10690.00
	h)GI pipe	Each	10	997	9970.00
7	Supply and fixing of b)alkathene tube of 25mm dia asper standard technical specification Ele SR 2010-11 (P81/47)	Each	2	765	1530.00
	Spiral Earth Electrode as per standard technical specification	Each	39	535	20865.00
8	Supplying fixing and wiring earth electrode for grounding of lifts, transformer...DG sets etc using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm alround with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.Ele SR 2010-11 (P68/2)	No	3	3000.00	9000.00
9	GI wire 10 swg	Kg	5	51.00	255.00
10	PVC insulation tape	Roll	3	10.00	30.00
11	MS fish plate	No	9	61.00	549.00

12	Caution board	No	1	132	132
	Part(A) Total				**463193.00**
	PART (B) Erection of 1x100 kvs Transformer on spun pole				
13	Supply ,errection testing and commissioning.100...KVA copper wound distribution transformer 11kv/433 v with off load tap switch ,Buchholtz relay winding temprature indicator,oil temprature indicator,marshalling box with wiring magnetic oil level indicator with +5% to -10% steps of 2.5% HT and LT bushings with all standard accessories as perlatest IS standard technical specification.Ele SR 2010-11 (P80/43a)	Each	1	290550.00	290550.00
14	Supply and errection of 11 mtr Spun pole including earth work etc ,complete as per the standard technical specification Ele SR 2010-11 (P78/31)	Each	1	20300.00	20300.00
15	Supply and fixing of Single pole mounted transformer kit for 100/250 KVA on 11 mtr Spun pole etc complete as per standard technical specification Ele SR 2010-11 (P79/35)	Each	1	19110.00	19110.00
16	Supplying and Fixing of.....including all hardwares complete as per the standard technical specification b)HTST support 50x8mm Ele SR 2010-11(P79/36	Each	9	77.00	693.00
	j)GOS set 200A S/B	Each	1	8106.00	8106.00
	l)Horn Gap Fuse unit(H.G)	Each	1	1145.00	1145.00
	n)lighting Arrestor 9KV 5kA Polymeric type	Each	1	1515.00	1515.00
	g)Guy set	Each	10	1069.00	10690.00
	h)GI pipe	Each	60	997.00	59820.00
17	Supplying and Fixing of.....including all hardwares complete as per the standard technical specification b)11 KV pin insulator Ele SR 2010-11(P79/37)	Each	9	194.00	1746.00
18	Supply and fixing of b)alkathene tube of 25mm dia asper standard technical specification Ele SR 2010-11 (P81/47)	Each	2	765.00	1530.00
	c)LT Distribution box for 63/100KVA Transformer with 1 No 160Amps 25KA 4 pole MCCB suitable capacity aluminium bus bar mounted in 16SWG powder coated M.S.Box suitable to mount at Trnsformer Centre .	Each	1	15540.00	15540.00
	f)LT wiring kit 250KVA as per Standard technical specification	Each	1	9775.00	9775.00
19	Supplying and Fixing of.....cross arm including all hardwares complete as per the standard technical specification c)horizontal 50x450x6 mm -980mm Ele SR 2010-11(P78/32)	Each	4	270.00	1080.00
20	Supply and fixing of Rabbit conductor(6/3.15 mm Al+6/3.15mm steel) Ele SR 2010-11(P79/40)	Mtr	50	31.47	1573.50
21	Supplying and fixing of P.G.clamps including all Hardwares etc complete as per the standard technical specification Ele SR (P79/38)	No	20	305	6100.00

22	Supplying fixing and wiring earth electrode for grounding of lifts, transformer...DG sets etc using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm around with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.Ele SR 2010-11 (P68/2)	No	1	3000 :00	3000 :00
23	GI wire 10 swg	Kg	5	51 :00	255 :00
24	PVC insulation tape	Roll	3	10 :00	30 :00
25	MS fish plate	No	9	61 :00	549 :00
26	Caution board	No	1	132 :00	132 :00
	Meter Board connection				
27 .41/37	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. . (32.9a) a) 40x40x6mm	Rmtr	32	240 :00	7680 :00
28. 41/36	Supplying.....amps rated 3 phase with neutral bus bar using requirement capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6 mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. b) 250Amps 4x30x10mm Alluminium Strips	Rmtr	6	2650 :00	15900 :00
29. 36/12	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required c) 5-32 Amps DP 1. Group 'A'	Each	32	510 :00	16320 :00
30 . 9/ 20	Wiring for lighting /power circuit using one of PVC insulated 1100V grade multis and copper conductor single core cable in open or consealed system of wiring Group A materials c) 2.5 sqmm	P/ Mtr	300	25 :00	7500 :00
	d) 4 sqmm	P/ Mtr.	200	32	6400 :00

31. 2/1	Open conduit system: Supplying heavy gauge PVC conduit pipe ... dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700 mm using WF screws. a) 19/20 mm dia 2mm thick	P / Mtr	200	37=00	7400=00
32. 68/ 04	Supplying of LT UG cable having aluminium conductor PVC insualted, sheathed, galvanized, steel wire / steel tap armoured cable with PVC outer sheathing 1.1 KV calss I Class 'A' PVC Cable i) 3.5 core 95sqmm	P / Mtr	400	531=00	212400=00
33. 69/05	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trech GI pipe / stone ware pipe / on wall / on pole as required c) 95 sqmm to 150sqmm	P / Mtr	400	14=00	5600=00
34. 68/ 12	Digging of Trench of 0.6M deep X 0.50M wide refilling the trench to the required ground level and consolidating etc., complete (As per Civil SR KSRBI-2, P-7) b) In Soil (Hard)	P / Mtr	200	50=00	10000=00
35. 41/38	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer pain and finally finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete a) 14 SWG	Sqcm	3E+05	0.37	118400=00
36. 68/1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipment on the meter board using 40mm dia 2.90mm thick GI pipe 2.5Mtr. long buried in a pit. The pit should be filled with equal proportion of slat and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3 of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12mm dia.	Each	4	1950=00	7800=00
37. 70/09	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole / drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class a) 40mm	P / Mtr.	50	240=00	12000=00

35/9	Supplying and fixing Moulded Case Circuit Breaker (MCCB Over the existing wood/panel board using necessary screws olts, nuts and wiring thermal Magnetci Microprocessed release and Earth Fault as per IS-13947. (Icu=Ics} b) Four pole 125-160 Amps 25 kA ,1) Group 'A'	Each	2	8060=00	16120=00
					896759.50
	PART(B) TOTAL				**896642.50**
	PART(A) TOTAL +PART(B) TOTAL			1360174.50	**1359835.50**
39	10 % supervision charges				**55000.00**
40	Inspectorate charges				**10000.00**
41	Meter charges,3MMD Charges & rounding off			99825.50	**100164.50**
	GRAND TOTAL				**1525000.00**

CERTIFICATE

1 The Contrrol timer switch for street light is essential
2 The provisions made in this estimate are adequate & ncecessary
3 The Rates adopted are Based on the PWD Electrical schedule of Rates 2010-11,
4 The area comes under the limits of Yelahanka zone,BBMP.

Junior Engineer (Ele),
Yelahanka zone
BBMP,Bangalore-92

Asst. Exe. Engineer
Project sub Division-1
Yelahanka zone,BBMP.

Executive Engineer
Project Division
Yelahanka zone,BBMP.

ADMINISTRATIVELY SANCTIONED FOR Rs 15.25 Lakhs

Rupees Fifteen lakhs Twenty five Thousand

.....

Under ...22.75... Electrical Head

.....

Registered as E E ( ) No.....09

Subject to conditions contained in enclosed memo EE ( ) No.....1...../21

Dt...2/8/2011.... Estimate A/Sanctioned No. ....1.....

dated...2/8/2011.....Rs..15.25 Lacs

Joint Commissioner
(Byatarayanapura)

Technical Sanction for Rs....15.25 lakhs - fifteen lakhs twenty five Thousand only

under ....P1878, 18pcs-00Nos. Bhagyajyothi Scheme (Rural Horizontal and General) 54 Nos-00Nos

registered as CE/YNK/TA/60/11-12 Subject to Conditions contsinced in enclosed memo

No...../.....Dt.18/08/2011

AE/JE TA SE (BTP) CE (BTP) (YNK)